UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

DOCKETE

SERVE

COMMISSIONERS:

Nils J. Diaz, Chairman Edward McGaffigan, Jr. Jeffrey S. Merrifield

Docket No.

70-3103-ML

CLI-05-05

MEMORANDUM AND ORDER

I. Introduction

In CLI-04-25, ¹ the Commission accepted for review the issue whether depleted uranium from a uranium enricl appropriately may be categorized as a "low-level radioactive waste," assuming the intent to treat the material requiring disposal instead of utilizing the material as a "resource." We directed the parties to submit briefs on the reasons given below, we conclude that depleted uranium is properly considered a low-level radioactive was

II. Background

At issue is a contention on waste disposal submitted by intervenors Nuclear Information and Resource Service Public Citizen (PC). The contention claims that the applicant, Louisiana Energy Services, L.P. (LES), does not "plausible strategy" for disposal of the depleted uranium hexafluoride (DUF6) waste that the LES facility will pr of the intervenors' contention challenged LES's first proposed strategy -- indeed its "preferred plausible strateg dispose of the depleted uranium through *private* sector conversion and disposal of the tails. However, one basintervenors' contention challenged a second option proposed by LES for disposition of the tails: transfer of the Department of Energy (DOE), pursuant to Section 3113 of the USEC Privatization Act. $\frac{6}{2}$

Section 3113(a) of the USEC Privatization Act requires DOE, if requested, "to accept for disposal low-level radi waste, including depleted uranium if it were ultimately determined to be low-level radioactive waste," generate

person licensed by the Nuclear Regulatory Commission to operate a uranium enrichment facility." Consequent hearing notice issued for this proceeding specified that "an approach by LES to transfer to DOE for disposal by ['s] depleted tails pursuant to Section 3113 of the USEC Privatization Act" would "constitute[] a 'plausible strat disposal of the depleted tails if the tails could be considered low-level radioactive waste under 10 C.F.R. Part 6 hearing notice also stated that if LES did not demonstrate a use as a resource for the uranium in the depleted "may be considered waste," and if "such waste meets the definition of 'waste' in 10 C.F.R. § 61.2, the deplete be considered low-level radioactive waste within the meaning of 10 C.F.R. Part 61."

In challenging LES's proposed strategy (termed "Option 2") to dispose of the depleted uranium tails by transfe intervenors stressed that this option would be "plausible" only if the "NRC makes a formal determination that [uranium tails] are low-level radioactive waste." Their contention goes on to argue that depleted uranium is r radioactive waste, and that therefore the proposed strategy to have DOE accept, convert, and dispose of the d uranium tails is not a "plausible" strategy. 11

The current issue before us is a narrow one. We consider only whether depleted uranium is properly considere radioactive waste, and thus whether transfer of the LES tails to DOE pursuant to Section 3112 of the USEC Priconstitutes a "plausible strategy" for disposal of the tails. We need not address any of the other waste disposa including particular disposal methods (e.g., engineered trenches, concrete vaults, underground mine) that LES proposed.

To understand all the issues discussed in this order requires some knowledge of 10 C.F.R. Part 61, which sets performance objectives for disposal of low-level radioactive waste, and includes a classification scheme -- and technical disposal requirements -- for near-surface disposal of low-level radioactive waste. We begin, therefore background description of Part 61. Next, we address the relevant statutory definitions of low-level radioactive then turn to why the intervenors' contention contains a misunderstanding of Part 61 and of what constitutes lo radioactive waste. We conclude with our reasons why depleted uranium should be properly characterized as a radioactive waste.

III. Analysis

A. Background On Part 61

Part 61 contains the NRC's licensing requirements for land disposal of low-level radioactive waste. The regulati general performance objectives applicable to any method of land disposal of low-level radioactive waste. 12 Lar as opposed to sea or extraterrestial disposal -- includes both disposal near the earth's surface and deeper disp surface" methods of disposal involve disposal at a depth of approximately 30 meters (although burial deeper tl meters may also be acceptable). 13 More protective methods of land disposal, often called "intermediate" land may involve deeper burial than near-surface disposal, a mined cavity, or special engineered barriers or disposa techniques. 15 The definition of "land disposal" facilities excludes only a geologic repository, 16 for such facilities regulated under Part 60 or 63.

While Part 61 contains general performance objectives -- specifying limits on radiation dose levels -- applicable of land disposal of low-level radioactive waste, it also contains specific technical requirements for near-surface radioactive waste. 17 Part 61 establishes a classification scheme for those types of low-level radioactive wastes "generally acceptable for near-surface disposal." Such wastes are divided into three classes: A, B, and C.

The suitability of wastes for near-surface disposal and their appropriate classification (e.g., Class A, B, or C) is by the amounts of long-lived and short-lived radionuclides contained in the waste, and whether radiation dose drop to acceptable levels over specified periods of time. 19 Safety objectives for near-surface disposal include a stability of the waste and of the disposal site after closure -- in other words, assuring that the waste form mair structural integrity. Specific goals include protecting against inadvertent intruders and minimizing water's acce (to limit the potential for radionuclides migrating). 20 Compared to Class A waste, Class B waste requires "more requirements on waste form to ensure stability after disposal."21 Class C waste "not only must meet more rigo requirements on waste form to ensure stability but also requires additional measures at the disposal facility" to against inadvertent intrusion.²²

Those low level radioactive wastes with radionuclide concentration limits even greater than the limits specified commonly termed GTCC [Greater Than Class C] waste - are "generally unacceptable for near-surface disposal, a case-by-case basis and with proposed "special processing or design" such waste may be approved as suitable surface disposal. $\frac{23}{2}$ Moreover, even if a particular form of GTCC waste does not meet the Part 61 requirements surface disposal, it may still be acceptable for disposal by more protective land disposal methods, if the Part 61 performance objectives for land disposal can be met. $\frac{24}{2}$

We turn now to the intervenors' contention, specifically as it challenges LES's proposed strategy for DOE to dis depleted uranium.

B. The USEC Privatization Act and NIRS/PC Contention on DOE Strategy

The USEC Privatization Act requires DOE to accept for disposal depleted uranium from any NRC uranium enrich licensee, if depleted uranium is "ultimately determined to be low-level radioactive waste." The statute does any further conditions, such as whether the depleted uranium waste also meets NRC requirements for near-su or any other method of disposal, or whether it falls within a particular class of low-level radioactive waste (e.g Under the statute, therefore, if LES's depleted uranium is low-level waste, regardless of radionuclide concentra must accept it for disposal.

The hearing notice in this proceeding specified one way of showing that the depleted uranium tails are low-leven the tails meet the definition of "waste" in 10 C.F.R. § 61.2. That definition reads as follows: "Waste means the radioactive wastes containing source, special nuclear, or byproduct material that are acceptable for disposal in disposal facility."

Recently, the Commission received a brief from USEC, Inc., which is not a party to this proceeding, but like LE pending before the NRC an application to construct and operate a uranium enrichment facility, and therefore h in whether the transfer of depleted uranium tails to DOE is a plausible waste disposal strategy. USEC submit depleted uranium tails "do *not* need to meet the 10 C.F.R. 61.2 definition of "Waste" to be considered LLW.

The term "waste" in the Part 61 definition is very clearly, as USEC states, "a subset of the larger category of LI refers specifically to "those" low-level wastes that are acceptable for land disposal under Part 61.²⁸ This is evic "waste" definition itself, and from the broader definition of *low-level radioactive waste* that immediately follows:

[L]ow-level waste has the same meaning as in the Low-Level Waste Policy Act, that is, radioactive waste classified as high-level radioactive waste, transuranic waste, spent nuclear fuel, or byproduct material a section 11e.(2) of the Atomic Energy Act (uranium or thorium tailings and waste).

Most low-level radioactive wastes likely would be acceptable for some form of land disposal, and thus would fa 61.2 "waste" definition, $\frac{29}{9}$ given the wide array of potential land disposal methods -- near-surface and interme may be governed under Part 61. $\frac{30}{9}$ (Only a geologic repository -- which instead is regulated under Part 60 or 6 encompassed by the Part 61 definition of "land disposal" facilities.) $\frac{31}{9}$ Nonetheless, USEC is correct that the § ℓ definition does not "represent a comprehensive definition of LLW [low-level waste]," and thus that, conceivably materials "may not meet the [Part 61] definition of '[w]aste' ... but nevertheless may properly be classified as level waste]."

The "plausible strategy" contention before us concerns LES's proposed strategy to dispose of depleted uranium to DOE, pursuant to the USEC Privatization Act. That Act does not mention Part 61 and refers generally to "low radioactive waste," not to an NRC-established subset of that waste. We therefore agree with USEC that in dete whether the proposed DOE option is a "plausible strategy," we need not resolve the question whether the LES uranium tails also would meet the "waste" definition in § 61.2. As USEC states, "inclusion of the reference to the definition of "Waste" in the hearing notice added an unnecessary requirement for showing that material is low radioactive waste. 33 Our inquiry must begin with the USEC Privatization Act and how it expressly defines low-l

Section 3102 of the USEC Privatization Act specifies that "low-level radioactive waste' has the meaning" set \mathfrak{g} (9) of the Low-level Radioactive Waste Policy Act. 34 In turn, section 2(9) of the Act 35 defines low-level radioactive material that:

- (A) is not high-level radioactive waste, spent nuclear fuel, or byproduct material (as defined in section 1 Atomic Energy Act of 1954 (42 U.S.C. 2014(e)(2))) $\frac{36}{2}$ and
- (B) the Nuclear Regulatory Commission, consistent with existing law and in accordance with paragraph as low-level radioactive waste.

The intervenors' contention does not contend that LES's depleted uranium tails will contain high-level radioacti spent nuclear fuel, or 11e.(2) byproduct material. In other words, their contention nowhere suggests that depl falls into any other general category of waste other than low-level radioactive waste. Instead, the contention r misunderstanding of the structure and content of Part 61 and its relation to the Low-Level Radioactive Waste F which determines ultimately what kinds of wastes may fall under the "umbrella" category of low-level radioactive wastes.

Specifically, in challenging the DOE disposal strategy option, the intervenors argue that "[t]he classification of waste can apply only to waste that would clearly be appropriate for shallow land disposal and 100 year institut control," and that depleted uranium "meets neither requirement." The contention further argues that "[t]he of all three uranium isotopes ..., the fact that they are all alpha emitters, and the specific activity of DU [deple uranium] ... all point to the classification of DU as GTCC [greater-than-Class-C] waste." The intervenors condepleted uranium as proposed for disposal by LES is unsuitable for near-surface disposal and will require disposal geologic repository.

None of these arguments, however, even if correct, would preclude categorizing depleted uranium as a low-lex waste.

To begin with, the intervenors' suggestion that only wastes suitable for disposal by near surface methods can I categorized as low-level radioactive wastes is patently incorrect. Part 61 identifies three classes of waste typical for near-surface disposal -- Classes A, B, and C -- but in no way suggests that these are the only wastes consi level radioactive waste, or even that Part 61 applies only to such wastes. On the contrary, Part 61 explicitly go method of land disposal" of low-level radioactive waste, including methods more stringent than near-surface. 3 radioactive wastes are not limited to those suitable for near-surface disposal.

Indeed, when Part 61 was issued, its Environmental Impact Statement explicitly acknowledged that the NRC n license applications involving disposal of low-level radioactive waste requiring either an enhanced near-surface method or "intermediate" land disposal methods. It was -- and remains -- the NRC's intent to "retain the flexit able to address these license applications in the existing framework of the [Part 61] rule." Thus, Part 61 did "establish an absolute concentration limit for land disposal of transuranic or other radionuclides." The Part 6 performance objectives would govern all applications involving land disposal of low-level radioactive waste, inc that might require more isolation than near-surface methods.

In the end, the "bottom line for disposal" of low-level radioactive wastes are the *performance objectives* of 10 Subpart C, $\frac{42}{}$ which set forth the ultimate standards and radiation limits for (1) protection of the general popul releases of radioactivity; (2) protection of individuals from inadvertent intrusion; (3) protection of individuals c operations; (4) and stability of the disposal site after closure. $\frac{43}{}$ Thus, while there may not yet be detailed tech established for all of the kinds of land disposal that might be proposed under Part 61, criteria can be developed by-case basis," as needed. $\frac{44}{}$ After all, any technical requirements are "intended to help ensure that the perfor objectives established in Subpart C are met," but they are "not the end in themselves, ... [only] a means of ac end," which are the performance standards. Specific disposal requirements for more stringent land disposal therefore, "were left to be addressed in action on a specific application, subsequent guidance, and rulemaking rulemaking is warranted."

In any event, low-level radioactive waste can encompass both those wastes suitable for near-surface disposal that may require greater isolation. That a particular waste might not meet the requirements for near-surface of not mean it is not low-level waste. Recognizing this defeats the intervenors' contention attacking the DOE disp At its heart that contention rests on the intervenors' claim that depleted uranium "fits into the waste category [greater-than-Class-C] waste" because of its specific radioactivity and because it has long-lived radiation-emit isotopes. But GTCC waste is itself a form of *low-level radioactive waste*. It is a "low-level radioactive waste the concentration limits of radionuclides established for Class C waste in § 61.55" of Part 61.48 Thus, even if w

that the intervenors are correct, and that the depleted uranium from the LES facility conceivably might ultimat classified as GTCC waste, such waste is a form of low-level radioactive waste. $\frac{49}{100}$

Since its inception, Part 61 has treated GTCC waste as low-level radioactive waste. Part 61 established radion concentration limits for the first three classes of low-level radioactive wastes (A, B, and C), but never consider wastes that do not fall within the other defined waste categories (*e.g.*, high-level waste, spent nuclear fuel) bu exceed the Class C limits in § 61.55 are anything other than a low-level radioactive waste, albeit one not typic for near-surface disposal. $\frac{50}{2}$ Among the 3 classes of low-level radioactive wastes that are routinely acceptable surface disposal, Class C waste "denotes the highest radionuclide concentrations of the three [classes];" but C "does not denote a maximum concentration limit for low-level wastes." Because "there is no regulatory limit concentrations of LLW [low-level waste] ... some LLW (exceeding Class C concentrations) may [even] have corapproaching those of HLW [high-level waste]."

Indeed, in 1989 the NRC considered revising the definition of *high-level* radioactive waste to include Greater-T wastes because intermediate land disposal facilities had not yet become available. But the agency explicitly ch maintain GTCC wastes within the category of low-level wastes, concluding that to assure the safe disposal of C would be unnecessary and counter-productive to alter waste category definitions. Instead of broadening the waste definition, the NRC amended Part 61 to highlight the need for prior NRC approval of land disposal method and to state that without such approval the GTCC waste would require disposal in a geologic repository. Even agency stressed that while GTCC waste is "not generally acceptable for near-surface disposal," and thus may redisposal methods "more stringent" than near-surface disposal, a geologic repository is only *one* of several pote stringent" disposal methods for GTCC waste. A Various alternative or "intermediate" land disposal methods for could be approved by the Commission, such as disposal at an intermediate depth, or disposal with special er barriers. In short, as we discussed above, "[a] wide variety of disposal methods, including all of those currently intermediate disposal methods could be licensed under Part 61, "56 taking into consideration the Part 61 perforobjectives and applicable radiation standards.

Under Part 61, GTCC low-level waste may be acceptable for disposal in a near-surface disposal facility with speprovisions, or acceptable for land disposal in an intermediate land disposal facility. $\frac{57}{2}$ But even if it were sent to repository governed under Part 60 -- a choice that conceivably could be made for cost reasons -- it would still [greater-than-Class-C] LLW [low-level waste]." $\frac{58}{2}$

In sum, the intervenors' challenge to the DOE disposal option as a "plausible strategy" for disposal of the LES uranium tailings rests on inaccurate premises -- that only waste suitable for near-surface disposal can be low-radioactive waste and that GTCC waste is not a low-level waste. Because these assumptions are incorrect on t portion of the intervenors' contention challenging the DOE disposal option does not raise a "genuine dispute ... material issue" for litigation as our contention rules require. ⁵⁹ While the contention raises factual arguments of the LES waste may properly be disposed of in a near-surface waste disposal facility (a matter we need not resistuch allegations are simply not material to the DOE "plausible strategy" issue before us. Even if proved, they we show that depleted uranium should be categorized as anything other than a low-level radioactive waste. It is duranium's status as low-level radioactive waste, not its suitability (or non-suitability) for near-surface disposal, DOE's statutory duty to accept the waste for disposal under the USEC Privatization Act.

C. Depleted Uranium is a Low-Level Radioactive Waste

In assessing whether the proposed DOE disposal option is a "plausible strategy," the *only* question to be answ whether depleted uranium is a low-level radioactive waste, not whether it meets one of the particular low-leve classifications, or whether a near-surface disposal facility will be adequate. Consistent with the Low-Level Radi Policy Act, the Commission finds that depleted uranium, assuming it is not treated as a resource, is appropriat categorized as a low-level radioactive waste. Depleted uranium is not high-level waste, spent nuclear fuel, 11¢ byproduct material, or transuranic waste as those waste categories are currently defined under relevant statut regulations. 60 Further, no other statute, regulation, or consideration either precludes or would render inapproxidentifying depleted uranium as a low-level radioactive waste.

Low-level waste traditionally has been defined by what it is not. Thus, both the "Low-Level Radioactive Waste and the Commission's regulations in 10 C.F.R. Part 61 currently classify wastes as 'low-level' if they are not otl classified as high-level wastes or certain other types of materials (e.g., uranium mill tailings)" and the Comm

further finds the categorization appropriate. Depleted uranium clearly is not spent fuel, transuranic waste, or 1 byproduct material. Nor does it meet the high-level waste definition, which includes specific kinds of wastes su irradiated fuel and the liquid and solid wastes resulting from the processing of irradiated fuel. Indeed, as we re above, the NRC years ago considered but explicitly rejected the idea of broadening the high-level waste definit encompass those low-level wastes with the highest radionuclide concentrations -- the GTTC wastes. Regardly form the uranium may take at the time of disposal (e.g. UF6 or U308) or its radionuclide concentration, deplet belongs most appropriately under the general low-level radioactive waste category. In the event depleted uran particular radionuclide concentration level and volume were to require disposal by methods more stringent tha surface disposal, it would still be low-level waste.

Although the Commission itself may not have explicitly declared previously, as a matter of law, that depleted to form of low-level radioactive waste, it has long been understood within the NRC to fall within the low-level rad umbrella. $\frac{63}{1}$ A more difficult question -- and one we need not answer today -- concerns whether the LES mater volumes and concentration proposed, will meet the Part 61 requirements for near-surface disposal. The Comm with the intervenors that a definitive conclusion on this and other disposal method questions cannot be reache time, and may require further environmental or safety analysis. Our decision should not be read to intimate ar Commission view on this issue, which relates both to the plausibility of LES's proposed private disposal options financial assurance -- issues which remain before the Board. $\frac{64}{1}$

IV. Conclusion

We conclude today that depleted uranium properly is considered a form of low-level radioactive waste. According pursuant to Section 3113 of the USEC Privatization Act, disposal of the LES depleted uranium tails at a DOE farepresents a "plausible strategy" for disposition of the tails. We therefore reverse the admission to this proceed portion of the intervenors' plausible strategy contention NIRS/PC EC-3/TC-1 that challenges the DOE disposal (termed Basis "D" in the intervenors' contention and renamed by the Board Basis "C").

IT IS SO ORDERED.

For the Commission	
/RA/	
Annette L. Vietti-Cook	
Secretary of the Commiss	ion

Dated at Rockville, Maryland this 18th day of January 2005.

¹60 NRC 223 (2004).

²As originally submitted by the intervenors, the contention was titled "waste storage and disposal" and given t "2.1." As admitted by the Board, the contention is titled "NIRS/PC EC-3/TC-1 -- Depleted Uranium Hexafluorid Disposal."

³See Petition to Intervene by NIRS/PC (April 6, 2004) ("Intervenors' Petition/Contention") at 25-31.

⁴See National Enrichment Facility Environmental Report, Rev. 2 (July 2004) ("Environmental Report") at 4.13-8

⁵The Board admitted the intervenors' "private sector" claim, and the Commission affirmed that aspect of the B "plausible strategy" decision. *See* CLI-04-25, 60 NRC at 226.

⁶See Intervenors' Petition/Contention at 27-31; Environmental Report at 4.13-8 to 4.13-9.

 7 42 U.S.C. 2297h-11 (2000). The Act also provides that the generator of the waste must reimburse DOE for α disposal.

⁸ See Louisiana Energy Services, L..P. (National Enrichment Facility), CLI-04-3, 59 NRC 10, 22 (2004), reprintε Reg. 5873, 5877 (Feb. 6, 2004).

⁹LES states that it will "make a determination as to whether the depleted uranium is a resource or a waste and the NRC." *See* Environmental Report at 4.13-7.

¹⁰Intervenors' Petition/Contention at 28.

¹¹See id. at 27-31.

¹²10 C.F.R. § 61.7(a).

 ^{13}Id

¹⁴ See, e.g., Final Rule, "Disposal of Radioactive Wastes," 54 Fed. Reg. 22,578, 22,580-22,581 (May 25, 1989)

¹⁵See, e.g., Draft Environmental Impact Statement on Part 61, "Licensing Requirements for Land Disposal of F Waste," NUREG-0782, Vol. 2 at 1-2, 2-4, 2-5 (Sept. 1981).

¹⁶See 10 C.F.R. § 61.2.

¹⁷See 10 C.F.R. §§ 61.7; 61.50.

¹⁸ See Final Rule, "Licensing Requirements for Land Disposal of Radioactive Waste," 47 Fed. Reg. 57,446, 57,4 1982) (Final Rule, "Licensing Requirements").

¹⁹ See 10 C.F.R. §§ 61.55(a)(3); 61.55(a)(4).

²⁰ See 10 C.F.R. §§ 61.7(b)(1); 61.7(b)(2).

²¹10 C.F.R. § 61.55(a)(2)(ii).

²²10 C.F.R. § 61.55(a)(2)(iii).

 ^{23}Id

²⁴ See, e.g., 10 C.F.R. §§ 61.55(a)(2)(iv); 61.58.

²⁵42 U.S.C. § 2297h.

²⁶The Commission chose to treat the USEC brief as an *amicus* filing in this proceeding, and allowed the parties to the brief. *See* Order (12/01/04)(unpublished).

²⁷USEC, Inc. Brief on the Proper Classification of Depleted Uranium Tails (Oct. 18, 2004) ("USEC Brief") at 6 (e original).

 ^{28}Id

²⁹See, e.g., Proposed Rule, "Licensing Requirements for Land Disposal of Radioactive Waste," 46 Fed. Reg. 38 (July 24, 1981)(emphasis added)("Part 61 is intended to deal with the disposal of *most* wastes included in this Radioactive Waste Policy Act] definition)." Whether a low-level radioactive waste is "acceptable for land dispos upon whether (1) the waste meets the Part 61 criteria for near-surface disposal, or (2) the NRC, after evaluati "specific characteristics of the waste, disposal site, and method of disposal," finds reasonable assurance that reexposures will not exceed the limits established in the Part 61 performance objectives for land disposal. See 10 61.58; 61.55(a)(2)(iv); 61.40; 61.55 (requirements for near-surface disposal).

³⁰See, e.g., 10 C.F.R. §§ 61.7(a); Final Rule, "Disposal of Radioactive Wastes," 54 Fed. Reg. at 22,581.

³¹ See 10 C.F.R. § 61.2; Final Rule, "Disposal of Radioactive Wastes," 54 Fed. Reg. at 22,580. The NRC has reg "specific types of disposal facilities Part 60 applies to any geologic repository for HLW [high-level waste], rewhat other types of radioactive wastes may be disposed of there," while "Part 61 pertains to land disposal facilitan repositories." Final Rule, "Disposal of Radioactive Wastes," 54 Fed. Reg. at 22,579.

³²USEC Brief at 6.

 $^{33}Id.$

³⁴42 U.S.C. § 2297h.

³⁵42 U.S.C. § 2021b(9).

³⁶The 10 C.F.R. § 61.2 definition of low-level radioactive waste also excludes transuranic waste, as does the Ic radioactive waste definition in the Nuclear Waste Policy Act of 1982 (see 42 U.S.C. § 10102). Depleted uraniur transuranic waste.

³⁷ See Intervenors' Petition/Contention at 28.

³⁸*Id.* at 29.

³⁹10 C.F.R. § 61.7(a)(emphasis added).

⁴⁰FEIS for Part 61, Vol. 2, at B-92.

⁴¹ *Id*.

⁴²Final Environmental Impact Statement (FEIS) On 10 C.F.R. Part 61 "Licensing Requirements for Land Dispos Radioactive Waste," NUREG-0945, Vol. 2 (Nov. 1982) ("FEIS for Part 61") at B-107

⁴³10 C.F.R. §§ 61.41, 61.42, 61.43, 61.44.

⁴⁴See, e.g. Final Rule, "Licensing Requirements for Land Disposal of Radioactive Wastes," 58 Fed. Reg. 33,886 (June 22, 1993) (clarifying that Part 61 performance objectives can apply to the licensing of above-ground disp for low-level radioactive waste, although Part 61 does not contain technical criteria specific to above-ground di

⁴⁵FEIS for Part 61, Vol. 2 at B-91.

⁴⁶Branch Technical Position Statement On Licensing of Alternative Methods of Disposal of Low-Level Radioactiv Fed. Reg. 7806, 7807 (Mar. 6, 1986); see also Final Rule, Licensing Requirements, 47 Fed. Reg. at 57,451; Fir

"Disposal of Radioactive Wastes," 54 Fed. Reg. at 22,581, 22,579. Because no intermediate land disposal facili were constructed, the NRC never had the need to develop and issue regulations outlining specific technical req land disposal methods other than near surface disposal.

Before the Commission, the intervenors cite a 1991 SECY paper titled the "Disposition of Depleted Uranium From Enrichment Plants," highlighting the "unique licensing issue" presented by disposal of depleted uranium from a enrichment plant. See SECY-91-019 (Jan. 25, 1991). The paper nonetheless concludes that if depleted uranium uranium enrichment facilities is treated as a waste instead of a resource, "it is a unique form of *low-level waste*.

⁴⁷See Intervenors' Petition/Contention at 29-30.

⁴⁸See 10 C.F.R. §72.3.

⁴⁹ See generally Final Rules, Disposal of Radioactive Wastes, 54 Fed. Reg. 22,578 (discussing "greater-than-Claus low level radioactive waste); see also, e.g., Interim Storage for Greater Than Class C Waste, 66 Fed. Reg. 51,8 2001) (while GTCC waste is generally unsuitable for near-surface disposal "it is considered as LLW [low-level w

⁵⁰See generally, Draft Environmental Impact Statement on 10 C.F.R. Part 61 'Licensing Requirements for Lanc Radioactive Waste,' NUREG-0782, Vol. 2 (Sept. 1981).

⁵¹Advance Notice of Proposed Rulemaking, "Definition of High-Level Radioactive Waste," 52 Fed. Reg. 5992, 5 1987).

⁵²Id.

⁵³ See generally, Final Rule, Disposal of Radioactive Wastes, 54 Fed. Reg. 22,578.

⁵⁴ See id., 54 Fed. Reg. at 22,580.

⁵⁵Id.

⁵⁶ *Id.*, 54 Fed. Reg. at 22,581; *see also id.*, 54 Fed. Reg. at 22,578.

⁵⁷See 10 C.F.R. §§ 61.7(b)(5); 61.58, 61.55(a)(2)(iv).

⁵⁸See Final Rule, Disposal of Radioactive Wastes, 54 Fed. Reg. at 22,578, 22,579-81.

⁵⁹See 10 C.F.R. § 2.309(f)(1).

 $^{^{60}}$ See, e.g., NWPA, 42 U.S.C. §§ 10101(12); 10101(23); AEA, 42 U.S.C. § 2014e(2); 10 C.F.R. § 60.2.

⁶¹52 Fed. Reg. at 5997; see also 10 C.F.R. § 61.2 (low-level waste definition, following "waste" definition).

⁶² See generally, Final Rule, Disposal of Radioactive Wastes, 54 Fed. Reg. 22,578.

⁶³For example, in the proposed Part 61 rule, depleted uranium was one of the radionuclides included in the lov classification charts found in 10 C.F.R. § 61.55, with assigned upper bound concentration limits for near-surface *See* Proposed Rule, 46 Fed. Reg. at 38,097. Prior to issuance of the final rule, however, the staff removed uran charts because at the time the types of uranium-bearing material typically disposed of by NRC licensees did not sufficient safety hazard to warrant inclusion in the charts. *See* FEIS (Part 61), Vol. 1 at 5-37 to 5-38. But at not staff suggest that depleted uranium waste -- at any radionuclide concentration -- would be anything other than radioactive waste.

require disposal." Id. at 4 (emphasis added).

⁶⁴ See Contention NIRS/PC EC-5/TC-2 AGNM TC-i (Decommissioning Costs); NIRS/PC EC-6/TC-3 (Costs of Mar Disposal of Depleted UF6). It appears that when the intervenors discuss the question whether material may be as "low-level waste," they may mean whether near-surface disposal is acceptable. But as we have explained a today's decision, that is not a question we need answer in considering the plausible strategy contention.

Another point warrants mention. In accepting review of whether depleted uranium is a low-level radioactive was Commission in CLI-04-25 directed the parties to address 10 C.F.R. § 61.55(a)(6), a rule that we believed might analysis. The parties addressed the rule in their briefs. However, because our decision rests on the relevant statused USEC Privatization Act and the Low-Level Radioactive Waste Policy Act -- we need not reach the issues concert (a)(6) that have been presented in the briefs.

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